# **NOTICE**

All drawings located at the end of the document.

Industrial Area Sampling and Analysis Plan Addendum #IA-03-08 IHSS Group 300-2

A 2003 RECEIVED RECORDS CENTER

June 2003

ADMIN RECORD IA-A-001483

C81-166-61

Industrial Area Sampling and Analysis Plan Addendum #IA-03-08 IHSS Group 300-2

Approval received from the Colorado Department of Public Health and Environment (

Approval letter contained in the Administrative Record

## TABLE OF CONTENTS

1.0	INTRODUCTION	ĺ
2.0	EXISTING CHARACTERIZATION INFORMATION	l
3.0	SAMPLING	1
4.0	REFERENCES	)
	LIST OF TABLES	
Table	e 1 IASAP Addendum #IA-03-08 IHSS Groups	l
Table	e 2 Potential Contaminants of Concern IHSS Groups 300-2	3
Table	e 3 Sampling Specifications IHSS Group 300-2	7
	LIST OF FIGURES	
Figu	re 1 FY03 IHSS Group 300-2 Group Location Map	2
Figu	re 2 Existing Subsurface Soil Sample Results Above Background Mean Plus Two Standard deviations or MDLs at IHSS Group 300-2	5
Figu	re 3 Proposed Sampling Locations for IHSS Group 300-2	5

#### **ACRONYMS**

AL Action Level

bgs below ground surface

D&D decontamination and decommissioning

DOE Department of Energy

FY Fiscal Year

HPGe high-purity germanium
HRR Historical Release Report

IA Industrial Area

IASAP Industrial Area Sampling and Analysis Plan

IHSS Industrial Hazardous Substance Site

MDL Method Detection Limit
PAC Potential Area of Concern

pCi/g Picocurie per gram

PCOC potential contaminant of concern
PRGs Preliminary Remediation Goals
SAP Sampling and Analysis Plan
SER Site Ecological Receptor

SVOCs semivolatile organic compounds
UBC Under Building Contamination
VOC volatile organic compound
WRW Wildlife Refuge Worker

#### 1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) (DOE 2001) Addendum #IA-03-08 includes Individual Hazardous Substance Site (IHSS) Groupspecific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSSs, Potential Areas of Concern (PACs), and Under Building Contamination (UBC) Sites proposed for characterization during Fiscal Year (FY) 03. This IASAP Addendum is a supplement to the IASAP (DOE 2001) and includes data and proposed sampling locations for the IHSS Groups and associated IHSSs and UBC Sites listed in Table 1. The locations of the IHSS Groups, and IHSSs and UBC Sites proposed for FY03 are shown on Figure 1.

Table 1
IASAP Addendum #IA-03-08 IHSS Groups

IHSS Group	IHSS/PAC/UBC Site
200.2	ÛBC 331 - Maintenance
300-2	300-134(S) – Lithium Metal Destruction Site

#### 2.0 EXISTING CHARACTERIZATION INFORMATION

Existing concentrations and activities above the background means plus two standard deviations, or MDL, are presented on Figure 2. There are 16 existing sampling locations at IHSS Group 300-2 (DOE 2000). Table 2 presents the PCOCs and proposed sampling methodology. Existing data for these IHSSs and UBC Sites are available in Appendix C of the IASAP (DOE 2001), HRR (DOE 1992-2001), and the Industrial Area Data Summary Report (DOE 2000).

No Rocky Flats Cleanup Agreement (RFCA) Wildlife Refuge Worker (WRW) Action Level (AL) (DOE et al. 2003) exceedances were observed at IHSS Group 300-2. However, radionuclide activities at several locations exceed corresponding background (mean plus two standard deviations) activities in surface soil (Figure 2). These radionuclides include americium-241, plutonium-239/240, uranium-234, uranium-235, and uranium-238. No background exceeedances were observed in subsurface soil.

Table 2 Doto

IHSS/PA UBC 331 - Maintenance UBC 331 - Maintenance	C/UBC Site	PCOCs VOCs Metals Li, Be SVOCs	Media Subsurface Soil Surface Soil and Subsurface Soil		Statistical Grid and Biased Statistical Grid and Biased Statistical Grid and Biased
300-134(S) – Lithium Metal Destruction Site	te .	VOCs	Subsurface Soil	HRR (DOE 1992-2002) Subsurface Soil Process knowledge (IASAP [DOE 2001]) IA Data Summary Report (DOE 2000)	Statistical Grid and Biased
300-134(S) – Lithium Metal Destruction Site		Radionuclides Metals Li, Be SVOCs	Surface Soil and Subsurface Soil	Surface Soil and Process knowledge (IASAP [DOE 2001]) Statistical Grid and Biased Subsurface Soil IA Data Summary Report (DOE 2000)	Statistical Grid and Biased

#### 3.0 SAMPLING

The proposed sampling specifications (number and types of samples) for IHSS Group 300-2 are listed in Table 3 and shown on Figure 3. The IASAP 11-meter statistical grid was applied at UBC-331 and 300-134(S). In addition, several biased sampling locations were added throughout IHSS Group 300-2. At UBC-331, biased samples were placed along abandoned floor and sanitary drains, and within each of the rooms that were once part of the metallurgical laboratory, which was in operation between 1953 and 1968. Biased sampling locations were also added to 300-134(S) in areas that coincide with drain spout outfalls and within the paved areas where the asphalt is cracked or failing. Where a new sampling location overlaps or is adjacent to an existing sampling location, the existing sampling location data will be used during evaluation.

Proposed new sampling locations are the starting point for IHSS Group characterization. After characterization starts, the number and type of samples may change based on sampling results. Statistical sampling locations within a building footprint may be adjusted in the field to collect samples from specific building features. If contaminant concentrations are found to be above ALs near the grid boundary or under the Building 331 slab, additional samples will be taken in consultation with the agencies and a contact record issued. Sampling locations will be field checked and the locations adjusted through the consultative process.

Table 3
Sampling Specifications IHSS Group 300-2

IHSS Group	IHSS/PAC/UBC Site	Location Code	Easting	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Method	Comment
300-2	UBC 331	BV40-000A	2081914.76	749501.03	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331	BV40-000A	2081914.76	749501.03	Surface Soil	0-0.5	Metals	6200	0109	Statistical sampling grid
300-2	UBC 331	BV40-000A	2081914.76	749501.03	Surface Soil	0-0.5	Be, Li	N/A	0109	Statistical sampling grid
300-2	UBC 331	BV40-000A	2081914.76	749501.03	Surface Soil	0-0.5	SVOCs	N/A	8270B	Statistical sampling grid
300-2	UBC 331	BV40-000B	2081914.76	749501.03	Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331	BV40-000B	2081914.76	749501.03	Subsurface Soil	0.5-2.5	Metals	6200	6010	Statistical sampling grid
300-2	UBC 331	BV40-000B	2081914.76	749501.03	Subsurface Soil	0.5-2.5	Be, Li	N/A	0109	Statistical sampling grid
300-2	UBC 331	BV40-000B	2081914.76	749501.03	749501.03 Subsurface Soil	0.5-2.5	VOCs	8260	8260	Statistical sampling grid
300-2	UBC 331	BV40-000B	2081914.76	749501.03	Subsurface Soil	0.5-2.5	SVOCs	A/N	8270B	Statistical sampling grid
300-2	UBC 331	BV40-001A	2081928.05	749467.57	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331	BV40-001A	2081928.05	749467.57	Surface Soil	0-0.5	Metals	6200	6010	Statistical sampling grid
300-2	UBC 331	BV40-001A	2081928.05	749467.57	Surface Soil	0-0.5	Be, Li	N/A	6010	Statistical sampling grid
300-2	UBC 331	BV40-001A	2081928.05	749467.57	Surface Soil	0-0.5	SVOCs	N/A	8270B	Statistical sampling grid
300-2	UBC 331	BV40-001B	2081928.05	749467.57	Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331	BV40-001B	2081928.05	749467.57	Subsurface Soil	0.5-2.5	Metals	6200	0109	Statistical sampling grid
300-2	UBC 331	BV40-001B	2081928.05	749467.57	749467.57 Subsurface Soil	0.5-2.5	Be, Li	N/A	6010	Statistical sampling grid
300-2	UBC 331	BV40-001B	2081928.05	749467.57	Subsurface Soil	0.5-2.5	VOCs	8260	8260	Statistical sampling grid
300-2	UBC 331	BV40-001B	2081928.05	749467.57	Subsurface Soil	0.5-2.5	SVOCs	N/A	8270B	Statistical sampling grid
300-2	UBC 331	BV40-002A	2081905.72	749439.33	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331	BV40-002A	2081905.72	749439.33	Surface Soil	0-0.5	Metals	6200	6010	Statistical sampling grid
300-2	UBC 331		2081905.72	749439.33	Surface Soil	0-0.5	Be, Li	N/A	6010	Statistical sampling grid
300-2	UBC 331	BV40-002A	2081905.72	749439.33	Surface Soil	0-0.5	SVOCs	N/A	8270B	Statistical sampling grid
300-2	UBC 331	BV40-002B	2081905.72	749439.33	Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Statistical sampling grid
300-2	UBC 331		2081905.72	749439.33	749439.33 Subsurface Soil	0.5-2.5	Metals	6200	6010	Statistical sampling grid
300-2	UBC 331	BV40-002B	2081905.72	749439.33	Subsurface Soil	0.5-2.5	Be, Li	N/A	0109	Statistical sampling grid
300-2	UBC 331	BV40-002B	2081905.72	749439.33	749439.33 Subsurface Soil	0.5-2.5	VOCs	8260	8260	Statistical sampling grid
300-2	UBC 331	BV40-002B	2081905.72	749439.33	749439.33 Subsurface Soil	0.5-2.5	SVOCs	N/A	8270B	Statistical sampling grid
300-2	UBC 331	BV40-004A	2081918 80	749526 48	Surface Soil	0.0.5	Radionnlides	HDCle	Alpha Sper	Bissed slong floor desin(s)

	<b>,</b> —						r			r		r	r			Ι								r		Γ	,				
Comment	Biased along floor drain(s)	Biased in former metallurgical lab	Biased along floor drain(s)																												
Offsite Method	6010	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	6010	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	6010	0109	8270B	Alpha Spec
Onsite Method	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	A/N	N/A	HPGe
Analyte	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides
Depth Interval	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5
Media	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749526.48 Subsurface Soil	749526.48 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	749501.22 Subsurface Soil	749501.22 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749517.31 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	749471.33 Subsurface Soil
Northing	749526.48	749526.48	749526.48	749526.48	749526.48	749526.48	749526.48	749526.48	749501.22	749501.22	749501.22	749501.22	749501.22	749501.22	749501.22	749501.22	749501.22	749517.31	749517.31	749517.31	749517.31	749517.31	749517.31	749517.31	749517.31	749517.31	749471.33	749471.33	749471.33	749471.33	749471.33
Easting	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081934.90	2081934.90	2081934.90	2081934.90	2081934.90	2081934.90	2081934.90	2081934.90	2081934.90		2081935.56	2081935.56	2081935.56	2081935.56
Location Code	BV40-004A	BV40-004A	BV40-004A	BV40-004B	BV40-004B	BV40-004B	BV40-004B	BV40-004B	BV40-005A	BV40-005A	BV40-005A	BV40-005A	BV40-005B	BV40-005B	BV40-005B	BV40-005B	BV40-005B	BV40-006A	BV40-006A	BV40-006A	BV40-006A	BV40-006B	BV40-006B	BV40-006B	BV40-006B	BV40-006B	BV40-008A	BV40-008A	BV40-008A	BV40-008A	BV40-008B
THSS/PAC/UBC Site	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331																	
THSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

	I	<u> </u>			<u> </u>		<u> </u>	<u> </u>							Ţ		<u> </u>		Γ	Γ	Γ-										
																			***************************************												:
Comment	Biased along floor drain(s)	Biased along floor drain(s)	Biased along floor drain(s)	Biased along floor drain(s)	Statistical sampling grid																										
Offsite Method	0109	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	6010	0109	8260	8270B
Onsite Method	6200	A/Z	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A
Analyte	Metals	Be, Li	VOCs	SAOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs
Depth Interval	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
Media	Subsurface Soil	749471.33 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	749464.48 Subsurface Soil	749464.48 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749429.72 Subsurface Soil	749429.72 Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	2081950.38 749495.81 Subsurface Soil
Northing	749471.33	749471.33	749471.33	749471.33	749464.48	749464.48	749464.48	749464.48	749464.48	749464.48	749464.48	749464.48	749464.48	749429.72	749429.72	749429.72	749429.72	749429.72	749429.72	749429.72	749429.72	749429.72	749495.81	749495.81	749495.81	749495.81	749495.81	749495.81	749495.81	749495.81	749495.81
Easting	2081935.56	2081935.56	2081935.56	2081935.56	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081918.80	2081950.38	2081950.38	2081950.38	2081950.38	2081950.38	2081950.38	2081950.38	2081950.38	2081950.38
Location Code	BV40-008B	BV40-008B	BV40-008B	BV40-008B	BV40-009A	BV40-009A	BV40-009A	BV40-009A	BV40-009B	BV40-009B	BV40-009B	BV40-009B	BV40-009B	BV40-010A	BV40-010A	BV40-010A	BV40-010A	BV40-010B	BV40-010B	BV40-010B	BV40-010B	BV40-010B	BW40-005A	BW40-005A	BW40-005A	BW40-005A	BW40-005B	BW40-005B	BW40-005B	BW40-005B	BW40-005B
IHSS/PAC/UBC Site	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331	UBC 331																		
THSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

rites_2000	Site	Code	Eas	Northing	Media	Depth Interval	Analyte	Onsite Method	Offsite Method	Comment
300-2	UBC 331	BW40-018A	2081938.12	749499.98	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Biased in former metallurgical lab
300-2	UBC 331	BW40-018A		749499.98	Surface Soil	0-0.5	Metals	6200	0109	Biased in former metallurgical lab
300-2	UBC 331	BW40-018A	2081938.12	749499.98	Surface Soil	0-0.5	Be, Li	N/A	0109	Biased in former metallurgical lab
300-2	UBC 331	BW40-018A	2081938.12	749499.98	Surface Soil	0-0.5	SVOCs	N/A	8270B	Biased in former metallurgical lab
300-2	UBC 331	BW40-018B	2081938.12	749499.98	Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Biased in former metallurgical lab
300-2	UBC 331	BW40-018B	2081938.12	749499.98	749499.98 Subsurface Soil	0.5-2.5	Metals	6200	0109	Biased in former metallurgical lab
300-2	UBC 331	BW40-018B	BW40-018B 2081938.12	749499.98	749499.98 Subsurface Soil	0.5-2.5	Be, Li	N/A	0109	Biased in former metallurgical lab
300-2	_	BW40-018B	BW40-018B 2081938.12	749499.98	Subsurface Soil	0.5-2.5	VOCs	8260	8260	Biased in former metallurgical lab
300-2	_	BW40-018B		749499.98	Subsurface Soil	0.5-2.5	SVOCs	N/A	8270B	Biased in former metallurgical lab
_	331	BW40-020A	2081955.78	749525.73	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Potential solvent spill
		BW40-020A	BW40-020A 2081955.78	749525.73	Surface Soil	0-0.5	Metals	6200	0109	Potential solvent spill
	_	BW40-020A	BW40-020A 2081955.78	749525.73	Surface Soil	0-0.5	Be, Li	N/A	0109	Potential solvent spill
		BW40-020A	BW40-020A 2081955.78	749525.73	Surface Soil	0-0.5	SVOCs	N/A	8270B	Potential solvent spill
		BW40-020B		749525.73	Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Potential solvent spill
_		BW40-020B		749525.73	749525.73 Subsurface Soil	0.5-2.5	Metals	6200	6010	Potential solvent spill
		BW40-020B	2081955.78	749525.73	749525.73 Subsurface Soil	0.5-2.5	Be, Li	N/A	6010	Potential solvent spill
_		BW40-020B	BW40-020B 2081955.78	749525.73	749525.73 Subsurface Soil	0.5-2.5	VOCs	8260	8260	Potential solvent spill
_	_	BW40-020B	BW40-020B 2081955.78	749525.73	Subsurface Soil	0.5-2.5	SVOCs	N/A	8270B	Potential solvent spill
	_	BW40-022A		749504.44	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Biased in former storage area
	_	BW40-022A	2081955.04	749504.44	Surface Soil	0-0.5	Metals	6200	6010	Biased in former storage area
	_	BW40-022A	2081955.04	749504.44	Surface Soil	0-0.5	Be, Li	N/A	0109	Biased in former storage area
	_	BW40-022A	BW40-022A 2081955.04 749504.44	749504.44	Surface Soil	0-0.5	SVOCs	N/A	8270B	Biased in former storage area
	_	BW40-022B 208195		749504.44	749504.44 Subsurface Soil	0.5-2.5	Radionulides	HPGe	Alpha Spec	Biased in former storage area
_	_			749504.44	749504.44 Subsurface Soil	0.5-2.5	Metals	6200	6010	Biased in former storage area
	_	BW40-022B		749504.44	Subsurface Soil	0.5-2.5	Be, Li	N/A	. 0109	Biased in former storage area
		BW40-022B	2081955.04	749504.44	749504.44 Subsurface Soil	0.5-2.5	VOCs	8260	8260	Biased in former storage area
$\perp$		3W40-022B	2081955.04	749504.44	BW40-022B 2081955.04 749504.44 Subsurface Soil	0.5-2.5	SVOCs	A/A	8270B	Biased in former storage area
	_			749494.36	Surface Soil	0-0.5	Radionulides	HPGe	Alpha Spec	Biased in former storage room
	_		5.45	749494.36	Surface Soil	0-0.5	Metals	6200	0109	Biased in former storage room
	331	BW40-023A		749494.36	Surface Soil	0-0.5	Be, Li	N/A	6010	Biased in former storage room
	UBC 331   E	BW40-023A   2081955.45		749494 36	Surface Soil	200	COOC		40000	

	<u> </u>					alls	falls	alls	alls	alls	alls	alls																			
	ujo	moo	moo	noo	orm	spout outf	spout out	spout outf	spout outf	spout out	spout outf	n spout outf	spout outf	spout outf	spout out	spout outf															
Comment	storage re	r storage re	r storage re	r storage re	storage re	along drain	along drain	along drain	along drain	along draii	along draii	along drain	along drain	along drair	along drain	along drair	along draii	along drai	along drai	along draii	along drai	along drair	along drain	along draii	along drain						
	Biased in former storage room	Biased samples along drain spout outfalls																													
		Bias	Bias	Bias	Bias	1	Bias	Bias	Bias	_	Bias	Bias	Bias	Bias		Bias	Bias	Bias		Bias	Bias	Bias	Bias		Bias	Bias	Bias		Bias	Bias	Bias
Offsite Method	Alpha Spec	0109	6010	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec	0109	6010	8260
Onsite Method	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260
Analyte	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs
Depth Interval	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
Media	749494.36 Subsurface Soil	749494.36 Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749526.36 Subsurface Soil	749526.36 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	749530.69 Subsurface Soil	749530.69 Subsurface Soil	749530.69 Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749387.38 Subsurface Soil
Northing	749494.36	749494.36	749494.36	749494.36	749494.36	749526.36	749526.36	749526.36	749526.36	749526.36	749526.36	749526.36	749526.36	749526.36	749530.69	749530.69	749530.69	749530.69	749530.69	749530.69	749530.69	749530.69	749530.69	749387.38	749387.38	749387.38	749387.38	749387.38	749387.38	749387.38	749387.38
Easting	2081955.45	2081955.45	2081955.45	2081955.45	2081955.45	2081868.58	2081868.58	2081868.58	2081868.58	2081868.58	2081868.58	2081868.58	2081868.58	2081868.58	2081927.05	2081927.05	2081927.05	2081927.05	2081927.05	2081927.05	2081927.05	2081927.05	2081927.05	2081868.03	2081868.03	2081868.03	2081868.03	2081868.03	2081868.03	2081868.03	2081868.03
Location Code	BW40-023B	BW40-023B	BW40-023B	BW40-023B	BW40-023B	BV40-003A	BV40-003A	BV40-003A	BV40-003A	BV40-003B	BV40-003B	BV40-003B	BV40-003B	BV40-003B	BV40-007A	BV40-007A	BV40-007A	BV40-007A	BV40-007B	BV40-007B	BV40-007B	BV40-007B	BV40-007B	BV40-011A	BV40-011A	BV40-011A	BV40-011A	BV40-011B	BV40-011B	BV40-011B	BV40-011B
IHSS/PAC/UBC Site	UBC 331	IHSS 134 (S)																													
IHSS II Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

	ıtfalls																														
Comment	Biased samples along drain spout outfalls	Statistical sampling grid																													
Offsite Method	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	6010
Onsite Method	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A
Analyte	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li
Depth Interval	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5
Media	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749557.51 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	749547.08 Subsurface Soil	749547.08 Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil
Northing	749387.38	749557.51	749557.51	749557.51	749557.51	749557.51	749557.51	749557.51	749557.51	749557.51	749552.29	749552.29	749552.29	749552.29	749552.29	_	749552.29	749552.29	749552.29	749547.08	749547.08	749547.08	749547.08	749547.08	749547.08	749547.08		749547.08	749524.05	749524.05	749524.05
Easting	2081868.03	2081959.41	2081959.41	2081959.41	2081959.41	2081959.41	2081959.41	2081959.41	2081959.41	2081959.41	2081995.03	2081995.03	2081995.03			2081995.03	-	2081995.03	2081995.03	330.65	330.65	30.65			30.65	30.65	30.65		2081972.70		
Location Code	BV40-011B	BW40-000A	BW40-000A	BW40-000A	BW40-000A	BW40-000B	BW40-000B	BW40-000B	BW40-000B	BW40-000B	BW40-001A	BW40-001A	BW40-001A	BW40-001A 2081995.03	BW40-001B 2081995.03		BW40-001B	BW40-001B	BW40-001B	BW40-002A 20820			BW40-002A	BW40-002B 2082030.65	BW40-002B 2082(				BW40-003A	BW40-003A 2081972.70	BW40-003A 2081972.70
THSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		_		IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)
THSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

Comment	Statistical sampling grid																														
Offsite Method	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	6010
Onsite Method	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A
Analyte	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li
Depth Interval	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5
Media	Surface Soil	Subsurface Soil	749524.05 Subsurface Soil	749524.05 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749518.84 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	749490.60 Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749485.38 Subsurface Soil	749485.38 Subsurface Soil
Northing	749524.05	749524.05	749524.05	749524.05	749524.05	749524.05	749518.84	749518.84	749518.84	749518.84	749518.84	749518.84	749518.84	749518.84	749518.84	749490.60	749490.60	749490.60	749490.60	749490.60	749490.60	749490.60	749490.60	749490.60	749485.38	749485.38	749485.38	749485.38	749485.38	749485.38	749485.38
Easting	2081972.70	2081972.70	2081972.70	1972.70	2081972.70	2081972.70	2082008.32	2008.32	2008.32	2008.32	2082008.32	2082008.32	2082008.32	2008.32	2008.32	2081986.00	2081986.00	2081986.00	1986.00	1986.00	2081986.00	2081986.00	2081986.00	00.9861	2021.62	2082021.62		2082021.62		2021.62	2082021.62
Location Code	BW40-003A	BW40-003B	BW40-003B	BW40-003B 208	BW40-003B	BW40-003B	BW40-004A	BW40-004A 208	BW40-004A 208	BW40-004A 2083	BW40-004B	BW40-004B	BW40-004B	BW40-004B 208	BW40-004B 208	BW40-006A	BW40-006A	BW40-006A	BW40-006A 208	BW40-006B 208	BW40-006B	BW40-006B	BW40-006B	BW40-006B 208	BW40-007A 2087		BW40-007A	BW40-007A	BW40-007B	BW40-007B 2082	BW40-007B
THSS/PAC/UBC Site	IHSS 134 (S)		IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)																									
IHSS	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

~
~

Comment	Statistical sampling grid																														
Offsite Method	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	6010
Onsite Method	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200
Analyte	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals
Depth Interval	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5
Media	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749462.36 Subsurface Soil	749462.36 Subsurface Soil	749462.36 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil
Northing	749485.38	749485.38	749462.36	749462.36	749462.36	749462.36	749462.36	749462.36	749462.36	749462.36	749462.36	749457.14	749457.14	749457.14	749457.14	749457.14	749457.14	749457.14	749457.14	749457.14	749451.93	749451.93	749451.93	749451.93	749451.93	749451.93	749451.93	749451.93	749451.93	749434.12	749434.12
Easting	2082021.62	2082021.62	2081963.67	1963.67	2081963.67	2081963.67	2081963.67	2081963.67	1963.67	2081963.67	2081963.67	2081999.29	2081999.29	1999.29	1999.29	1999.29	2081999.29	2081999.29	2081999.29	2081999.29	2034.91	2082034.91	2082034.91	2082034.91	2034.91	2034.91	2034.91	2082034.91	2082034.91	2081941.34	2081941.34
Location Code	BW40-007B	BW40-007B	BW40-008A 208	BW40-008A 208	BW40-008A 208	BW40-008A	BW40-008B	BW40-008B	BW40-008B 208	BW40-008B	BW40-008B	BW40-009A	BW40-009A	BW40-009A 208	BW40-009A 208	BW40-009B 208	BW40-009B	BW40-009B	BW40-009B	BW40-009B	BW40-010A 208			BW40-010A	BW40-010B 2082	BW40-010B 208	BW40-010B 2082	BW40-010B	BW40-010B	BW40-011A	BW40-011A
IHSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)			IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)					IHSS 134 (S)	IHSS 134 (S)					IHSS 134 (S)				
THSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

								pout outfalls	oout outfalls	oout outfalls	oout outfalls	pout outfalls	pout outfalls	oout outfalls	pout outfalls	pout outfalls										out outfalls	sout outfalls	out outfalls	out outfalls	out outfalls	sont outfalle
Comment	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Biased samples along drain spout outfalls	Statistical sampling grid	Biased samples along drain spout outfalls																									
Offsite Method	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010
Onsite Method	A/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200
Analyte	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals
Depth Interval	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	2620
Media	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	749486.77 Subsurface Soil	749486 77 Subsurface Soil
Northing	749434.12	749434.12	749434.12	749434.12	749434.12	749434.12	749434.12	749531.02	749531.02	749531.02	749531.02	749531.02	749531.02	749531.02	749531.02	749531.02	749514.42	749514.42	749514.42	749514.42	749514.42	749514.42	749514.42	749514.42	749514.42	749486.77	749486.77	749486.77	749486.77	749486.77	749486 77
Easting	2081941.34	2081941.34	2081941.34		BW40-011B 2081941.34 749434.12	BW40-011B 2081941.34	2081941.34	2081944.72	2081944.72		2081944.72	2081944.72	2081944.72	2081944.72		2081944.72	2081960.90	2081960.90	2081960.90	BW40-021A 2081960.90	2081960.90	2081960.90	2081960.90	_		2081942.00	2081942.00	2081942.00	2081942.00		2081942.00
Location Code	BW40-011A	BW40-011A	BW40-011B	BW40-011B 2081941.34	BW40-011B	BW40-011B	BW40-011B	BW40-019A	BW40-019A	BW40-019A 2081944.72	BW40-019A	BW40-019B	BW40-019B	BW40-019B	BW40-019B 2081944.72	BW40-019B	BW40-021A	BW40-021A	BW40-021A	BW40-021A	BW40-021B	BW40-021B	BW40-021B	BW40-021B 2081960.90	BW40-021B 2081960.90		BW40-024A	BW40-024A	BW40-024A	BW40-024B 2081942.00	BW40-024B
IHSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)				
HSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

ı	in spout outfalls																														
Comment	Biased samples along drain spout outfalls	Statistical sampling grid																													
Offsite Method	6010	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec
Onsite Method	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe
Analyte	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides
Depth Interval	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5
Media	Subsurface Soil	749486.77 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749448.30 Subsurface Soil	749448.30 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749434.43 Subsurface Soil	749434.43 Subsurface Soil	Surface Soil
Northing	749486.77	749486.77	749486.77	749457.22	749457.22	749457.22	749457.22	749457.22	749457.22	749457.22		749457.22	749448.30	749448.30	749448.30	749448.30	749448.30	749448.30	749448.30	749448.30	749448.30	749434.43	749434.43	749434.43	749434.43		749434.43	749434.43	749434.43	749434.43	749443.43
Easting	2081942.00	2081942.00	2081942.00	2081940.92	2081940.92	2081940.92	2081940.92	2081940.92	2081940.92	2081940.92		2081940.92	2081941.67	2081941.67			2081941.67	2081941.67	2081941.67	2081941.67	2081941.67	2081954.79	1954.79	954.79	1954.79	2081954.79	2081954.79	954.79	1954.79	1954.79	2081954.05
Location Code	BW40-024B	BW40-024B	BW40-024B 208	BW40-025A	BW40-025A	BW40-025A	BW40-025A	BW40-025B	BW40-025B 208	BW40-025B 208	BW40-025B	BW40-025B	BW40-026A	BW40-026A 208	BW40-026A	BW40-026A	BW40-026B	BW40-026B	BW40-026B			BW40-027A	BW40-027A	BW40-027A 2081			BW40-027B	BW40-027B	BW40-027B 2081	BW40-027B 208	BW40-028A
THSS/PAC/UBC Site	IHSS 134 (S)				IHSS 134 (S)					IHSS 134 (S)												IHSS 134 (S)	IHSS 134 (S)								
IHSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

16





									Į.	li li	=	1	=	1	i.	=	<u> </u>	outfalls													
Comment	Statistical sampling grid	Biased samples at cracks in asphalt	Biased samples along drain spout outfalls	Biased samples along drain shout outfalls																											
	Statis	Statis	Statis		Statis	Statis	Statis	Statis	1	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	Biase	т -								
Offsite Method	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec	0109	6010	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec
Onsite Method	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	A/A	HPGe	6200	A/N	N/A	HPGe	6200	A/N	8260	N/A	HPGe	6200	A/N	A/N	HPGe
Analyte	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides
Depth Interval	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0 5-2 5
Media	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	Subsurface Soil	Subsurface Soil	749427.28 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil
Northing	749443.43	749443.43	749443.43	749443.43	749443.43	749443.43	749443.43	749443.43	749491.15	749491.15	749491.15	749491.15	749491.15	749491.15	749491.15	749491.15	749491.15	749427.28	749427.28	749427.28	749427.28	749427.28	749427.28	749427.28	749427.28	749427.28	749366.91	749366.91	749366.91	749366.91	749366.91
Easting	2081954.05	2081954.05	2081954.05	2081954.05		2081954.05	2081954.05	2081954.05	2082035.02	335.02	2082035.02	2082035.02	2082035.02	2082035.02	35.02	2082035.02	2082035.02	2082034.07	2082034.07	034.07	2082034.07	2082034.07	2082034.07	2082034.07	2082034.07	34.07	2081961.47	2081961.47	2081961.47		2081961.47
Location Code	BW40-028A	BW40-028A	BW40-028A	BW40-028B	BW40-028B 2081954.05	BW40-028B 20819	BW40-028B	BW40-028B	BW40-029A	BW40-029A 20820	BW40-029A		BW40-029B	BW40-029B	BW40-029B 2082(	BW40-029B 2082		BW40-030A	BW40-030A	BW40-030A 2082	BW40-030A		BW40-030B	BW40-030B	BW40-030B	BW40-030B 2082(		BW40-031A	BW40-031A	BW40-031A 2081961.47	BW40-031B
IHSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)			IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)								
THSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2

<b>-</b>	in spout outfalls	in asphalt																													
Comment	Biased samples along drain spout outfalls	Biased samples at cracks in asphalt	Statistical sampling grid																												
Offsite Method	0109	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	6010	6010	8260	8270B	Alpha Spec	6010	6010	8270B	Alpha Spec	0109	0109	8260	8270B	Alpha Spec	0109	6010	8270B	Alpha Spec	6010	6010	8260	
Onsite Method	6200	N/A	8260	N/A	HPGe	6200	A/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	A/N	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	
Analyte	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	
Depth Interval	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	
Media	Subsurface Soil	749366.91 Subsurface Soil	749366.91 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749366.91 Subsurface Soil	749366.91 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749528.70 Subsurface Soil	749528.70 Subsurface Soil	749528.70 Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	Subsurface Soil	749590.97 Subsurface Soil	749590.97 Subsurface Soil	749590.97 Subsurface Soil	
Northing	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749366.91	749528.70	749528.70	749528.70	749528.70	749528.70	749528.70	749528.70	749528.70	749528.70	749590.97	749590.97	749590.97	749590.97	749590.97	749590.97	749590.97	749590.97	
Easting	2081961.47	2081961.47	2081961.47	2081961.47	2082003.18	BW40-032A 2082003.18	03.18	2082003.18	2082003.18	BW40-032B 2082003.18	BW40-032B 2082003.18	BW40-032B 2082003.18	2082003.18	2081987.83	BW40-033A 2081987.83	-	2081987.83	2081987.83	87.83	87.83	2081987.83	2081987.83		_	2081946.12	2081946.12	2081946.12			2081946.12	
Location Code	BW40-031B	BW40-031B	BW40-031B	BW40-031B	BW40-032A	BW40-032A	BW40-032A 20820	BW40-032A	BW40-032B	BW40-032B	BW40-032B	BW40-032B	BW40-032B	BW40-033A	BW40-033A	BW40-033A 2081987.83	BW40-033A	BW40-033B	BW40-033B 20819	BW40-033B 208198	BW40-033B	BW40-033B	BW41-002A 2081946.12	BW41-002A 2081946.12		BW41-002A	BW41-002B	BW41-002B 2081946.12	BW41-002B 2081946.12	BW41-002B	
THSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)													
THSS 1	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	

Comment	grid	grid	grid	grid	grid	grid	grid	bing	grid	arid	File	grid						
Çor	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid	Statistical sampling grid		Statistical sampling grid				
Offsite Method	Alpha Spec	6010	6010	8270B	Alpha Spec	6010	0109	8260	8270B	Alpha Spec	0109	0109	8270B	Alpha Spec	0109	0109		8260
Onsite Method	HPGe	6200	N/A	N/A	HPGe	6200	N/A	8260	N/A	HPGe	6200	N/A	N/A	HPGe	6200	N/A		8260
Analyte	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li	VOCs	SVOCs	Radionulides	Metals	Be, Li	SVOCs	Radionulides	Metals	Be, Li		VOCs
Depth Interval	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-2.5	0.5-2.5	0.5-2.5		0.5-2.5
Media	Surface Soil	Surface Soil	Surface Soil	Surface Soil	981.74 749585.75 Subsurface Soil	749585.75 Subsurface Soil	749585.75 Subsurface Soil	Subsurface Soil	Subsurface Soil	Surface Soil	Surface Soil	Surface Soil	Surface Soil	749580.53 Subsurface Soil	017.36 749580.53 Subsurface Soil	017.36 749580.53 Subsurface Soil		017.36 749580.53 Subsurface Soil
Northing	749585.75	749585.75	749585.75	749585.75	749585.75			749585.75	749585.75	017.36 749580.53	017.36 749580.53	017.36 749580.53	017.36 749580.53	749580.53	749580.53	749580.53		749580.53
Easting	2081981.74	2081981.74	2081981.74	2081981.74	2081981.74	2081981.74	2081981.74	2081981.74	2081981.74	2082017.36	2082017.36	2082	2082	2082017.36	2082	2082017.36		2082
Location Code	BW41-003A 2081	BW41-003A	BW41-003A 2081	BW41-003A	BW41-003B 2081	BW41-003B 2081	BW41-003B	BW41-003B	BW41-003B	BW41-004A 20820	BW41-004A 20820	BW41-004A	BW41-004A	BW41-004B	BW41-004B	BW41-004B 20820		BW41-004B
THSS/PAC/UBC Site	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)	IHSS 134 (S)		IHSS 134 (S)				
IHSS Group	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2	300-2		300-2

### 4.0 REFERENCES

DOE, 1992 – 2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE, 2000, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September.

DOE, 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.







